

AMENDMENTS TO THE CLAIMS

1. (canceled)

2. (canceled)

3. (currently amended) An automated method of removing soil from a surface intended to be cleaned by a movable machine having a revolving cleaning medium comprising:

wetting a portion of the revolving cleaning medium with a cleaning liquid; revolving said previously wetted portion of the cleaning medium toward a vacuum extractor, said extractor having an elongated slot opening ~~with an edge of the slot opening being in contact with the cleaning medium, said slot opening~~ extending substantially across said previously wetted portion of the cleaning medium;

vacuum extracting some soil and some of the cleaning solution from said previously wetted portion of the revolving cleaning medium prior to said portion revolving into contact with the surface intended to be cleaned;

revolving said previously wetted portion of the cleaning medium away from contact with the slot opening and toward contact with the surface intended to be cleaned;

contacting said previously wetted portion of the cleaning medium with a drip guard, said drip guard extending substantially across a length of said cleaning medium, and said drip guard redirecting cleaning solution thrown from the revolving cleaning medium back onto the cleaning medium, thereby preventing droplets of cleaning solution from falling onto the surface intended to be cleaned;

wiping the surface with said portion of the revolving cleaning medium previously vacuum extracted so as to transfer soil from the surface intended to be cleaned to the revolving cleaning medium; and repeating said wetting, extracting, contacting and wiping during a cleaning procedure.

4. (previously presented) The method of claim 3 further comprising extracting soil and cleaning solution from the portion of the cleaning medium previously wiped against the surface intended to be clean prior to again wetting the same portion.

5. (currently amended) A method of removing soil from a surface intended to be cleaned using a movable machine, said method comprising:

moving the movable machine across the surface while repeatedly: wetting a portion of a revolving cleaning medium with a cleaning liquid; revolving said wetted portion of the cleaning medium into contact with ~~an edge of a slot opening of~~ a vacuum extractor; with said vacuum extractor, vacuum extracting soil and cleaning liquid from said portion of the revolving cleaning medium ~~through said slot opening~~ prior to said portion revolving into contact with the surface to be cleaned; revolving said wetted portion of the cleaning medium out of contact with said ~~slot opening~~ vacuum extractor and toward contact with said surface to be cleaned; contacting said previously wetted portion of the cleaning medium with a drip guard, said drip guard extending substantially across a length of said cleaning medium, and said drip guard redirecting cleaning solution thrown from the revolving cleaning medium back onto the cleaning medium, thereby preventing droplets of cleaning solution from falling onto the surface intended to be cleaned; and

wiping the surface with said portion of the revolving cleaning medium so as to transfer soil from the surface intended to be cleaned to the cleaning medium.

6. (previously presented) The method of claim 5 wherein said wetting the portion of the revolving cleaning medium includes spraying cleaning liquid onto the cleaning medium from a nozzle, said cleaning medium capturing substantially all of a spray output of the nozzle.

7. (Canceled)

8. (currently amended) The method of claim 5 wherein the cleaning medium includes at least one elongated generally cylindrical shaped element rotating generally about an axis of rotation, ~~with said slot opening being generally parallel to said axis of rotation.~~

9. (currently amended) ~~The method of claim 8 A method of removing soil from a surface intended to be cleaned using a movable machine, said method comprising:~~
~~moving the movable machine across the surface while repeatedly;~~
~~wetting a portion of a revolving cleaning medium with a cleaning liquid;~~
~~revolving said wetted portion of the cleaning medium into contact with a vacuum extractor;~~
~~with said vacuum extractor, vacuum extracting soil and cleaning liquid from said portion of the revolving cleaning medium prior to said portion revolving into contact with the surface to be cleaned;~~
~~revolving said wetted portion of the cleaning medium out of contact with said vacuum extractor and toward contact with said surface to be cleaned; and~~

wiping the surface with said portion of the revolving cleaning medium so as to transfer soil from the surface intended to be cleaned to the cleaning medium, wherein the cleaning medium includes a pair of elongated generally cylindrical shaped elements which are counter-rotated relative to each other and wherein said pair of elements are brought into contact with each other as the cleaning medium revolves, and wherein said axis of rotation is generally parallel with the surface intended to be cleaned.

10. (previously presented) The method of claim 9 wherein said extracting is achieved through a pair of vacuum apertures, each of said pair of vacuum apertures being associated with a different one of the counter-rotated elongated generally cylindrical shaped elements.

11. (currently amended) The method of claim 8 wherein the axis of rotation is aligned in a direction generally transverse to an operational direction of device movement across the surface 10 wherein said wetting includes spraying cleaning solution with a spray nozzle located above said pair of elongated generally cylindrical shaped elements, and said pair of elongated generally cylindrical shaped elements being in contact with each other so as to prevent sprayed cleaning solution from being directly sprayed onto the surface intended to be cleaned.

12. (previously presented) The method of claim 5 wherein the surface is a carpet surface, and wherein wiping the surface transfers soil from fibers of the carpet surface to the cleaning medium.

13. (previously presented) The method of claim 5 wherein the surface is a fabric surface, and wherein wiping the surface transfers soil from fibers of the fabric surface to the cleaning medium.

14. (canceled)

15. (currently amended) A method of cleaning a carpeted surface, said method being performed by a surface maintenance machine and comprising:

spraying a portion of a revolving cleaning medium with a cleaning liquid;
removing some soil and some of the cleaning liquid from the previously wetted portion of the cleaning medium using a vacuum device ~~having a slot opening with an edge of said slot opening being in contact with said cleaning medium~~, said removing drawing soil and cleaning liquid through ~~said slot opening vacuum device~~ and occurring prior to said portion revolving into contact with the carpet surface;

contacting said previously wetted portion of the cleaning medium with a drip guard,
said drip guard extending substantially across a length of said cleaning medium,
and said drip guard redirecting cleaning solution thrown from the revolving cleaning medium back onto the cleaning medium, thereby preventing droplets of cleaning solution from falling onto the surface intended to be cleaned;

wiping the carpeted surface with the portion of the revolving cleaning medium so as to transfer soil from the carpeted surface to the cleaning medium; and repeating said spraying, removing, contacting and wiping the carpeted surface during a carpet cleaning procedure.

16. (previously presented) The method of claim 15 wherein spraying involves pumping a cleaning liquid from a reservoir carried by the surface maintenance machine through a nozzle, said nozzle spraying substantially all of its spray output directly onto the cleaning medium, with said cleaning

medium being positioned between the nozzle and the surface intended to be cleaned .

17. (Canceled)

18. (currently amended) The method of claim 16 wherein said wiping involves rotating a cylindrical cleaning medium in contact with the carpeted surface, and said vacuum device includes a vacuum extractor slot extending substantially along across the cylindrical cleaning medium, with said vacuum extractor slot being positioned between said nozzle and said surface intended to be cleaned.

19. (previously presented) The method of claim 18 wherein the cylindrical cleaning medium is rotated about an axis which is generally perpendicular to a direction of machine use, and said vacuum extractor slot includes a pair of generally parallel walls, with ends of said pair of walls being in contact with the cylindrical cleaning medium.

20. (Original) The method of claim 15 wherein the surface maintenance machine either a self-propelled machine or a non-propelled machine.

21. (canceled)

22. (currently amended) A method of cleaning a carpeted surface, said method being performed by a surface maintenance machine and comprising:

spraying a portion of a revolving cleaning medium with a cleaning liquid;
revolving said portion of the cleaning medium toward contact with a vacuum extractor;
removing some soil and some of the cleaning liquid from the previously wetted portion of the cleaning medium using said vacuum extractor, said vacuum

~~extractor having a slot opening with an edge of said slot opening being in contact with the previously wetted portion of the cleaning medium, and said slot opening having a slot width which is substantially smaller than a diameter of a vacuum conduit coupled to said extractor, said removing occurring prior to said portion revolving into contact with the carpeted surface;~~

revolving said portion of the cleaning medium away from contact with the vacuum extractor and toward contact with the carpeted surface;

contacting said previously wetted portion of the cleaning medium with a drip guard, said drip guard extending substantially across a length of said cleaning medium, and said drip guard redirecting cleaning solution thrown from the revolving cleaning medium back onto the cleaning medium, thereby preventing droplets of cleaning solution from falling onto the surface intended to be cleaned; and

wiping the carpeted surface with the portion of the revolving cleaning medium so as to transfer soil from the carpeted surface to the cleaning medium, said wiping causing an amount of cleaning liquid to be thrown from the cleaning medium into contact with interior surfaces of a cleaning head; and
~~redirecting the amount of cleaning liquid thrown from the cleaning medium back toward the cleaning medium so as to minimize the dropping of large droplets of cleaning solution onto the carpeted surface.~~